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*26
Manuals
1799*



*Notified in
A.C.Is. for the
week ending
28th September
1938*

Small Arms Training
Volume I, Pamphlet No. 14
Annual (1939) Range
Courses
(other than .303-in. Vickers M.G.)
Regular Army
Cavalry Regiments (Horsed)
Infantry Battalions

LONDON

Printed under the Authority of HIS MAJESTY'S STATIONERY OFFICE
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By Command of the Army Council,

H. J. Creedy

THE WAR OFFICE,
28th September, 1938.

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SECTION 1.—GENERAL

1. This pamphlet gives details of the following :—

The light machine-gun course.
The rifle (miniature and open range) course.
The rifle (sniper's) course.
The anti-aircraft course.
Field firing.
The anti-tank rifle course.
The pistol course.
Mortar practice.

Each course is divided into parts to suit the categories firing it. They will be fired by :—

Cavalry regiments (horsed)—(Household Cavalry and Cavalry of the Line).
Infantry and machine-gun battalions (Foot Guards and Infantry of the Line).

2. All personnel not totally exempted (*see* para. 7) will fire the course laid down, and certain personnel, in addition, will fire the sniper's, anti-tank rifle and pistol courses and mortar practice.

3. The courses are designed to provide progressive training for the soldier, and to make him a practical service shot. After he has been exercised at easy targets, he will be advanced to practices resembling, as far as possible, active service conditions.

4. i. The parts of courses to be fired are shown in Table I.

ii. **The anti-tank rifle course.** (*See* Sec. 7.)

Three men for each anti-tank rifle on the war establishment of all units will be exercised.

iii. **Mortar practice.** When the 2-in. mortar becomes available, training in the rifle grenade will cease. (*See* (iv) below.)

iv. **Grenades.** An annual allotment of H.E., smoke and signal grenades is made to each infantry battalion and to each infantry depot for training and demonstration purposes. (For details of range organization, safety precautions, etc., *see* Pamphlet No. 13, Sec. 4.)

5. **C.O.'s pools.** Ammunition allotted to the C.O.'s pools will be used in accordance with the following priority list :—

i. For zeroing light machine guns and rifles. (Pamphlet No. 1, Appendix 1.)

- ii. For giving practice to backward shots.
- iii. For field firing—additional to the 20 rounds .303-in. allotted for each man.
- iv. For demonstrations and occasional shots.
- v. For regimental weapon training meetings.
- vi. For practice for competitions.

Pool ammunition is not an individual allotment. The number of rounds available for each weapon should be calculated at the beginning of the weapon training year and allotted by the C.O. for the various purposes for which he wishes it to be expended.

6. **Dress and equipment.** The dress and equipment to be worn is laid down in the details of the courses concerned and also in Pamphlet No. 1, 1937, Sec. 3, para. 24.

Troops not normally armed with the bayonet will not fire any practices with the bayonet fixed.

7. Total exemptions :—

- i. The following will be totally exempted from firing the courses, provided that, in the case of N.C.Os. and men, they have been once exercised. If, however, they are armed with the pistol, they will fire the pistol course :—

Field officers.
Captains (optional).
Adjutant.
Quarter-master.
Director of Music.
Veterinary officer.
All warrant officers.
All N.C.Os. above the rank of serjeant.
Pipe-major.
Bugle-major.
Drum-major.
Transport serjeant.
Orderly room serjeant and corporal of horse.
Serjeant cook and corporal of horse.
Serjeant tailor and corporal of horse.
Officer's mess serjeant and corporal of horse.
Band serjeant and corporal of horse.
Orderly room clerk.
Farriers (all ranks).
Saddlers (all ranks).
Saddle tree makers.
Soldiers of over 15 years' man's service.
Boys (*see* Pamphlet No. 1, Sec. 1, para. 6).
Tailors.

- ii. Additional to Household Cavalry and Foot Guards :—
Bandsmen.
Musicians.

- iii. A C.O. is authorized to allow total exemptions in the case of men attending courses of instruction the duration of which is six months or more, and any vocational training course. Such exemptions will be granted only in cases where attendance at a course of this nature prevents the individual concerned from being present when his unit is firing its annual course and arrangements cannot be made for him to fire as a casual.

8. Allotment of ammunition and standards of classification.—The allotment of ammunition and the standards of classification, where applicable, are shown in Tables II and III, respectively.

Owing to the peculiarities of certain ranges, it may be necessary to modify the standard "lay-out," and the detail of practices accordingly, for Parts V and VI of the rifle course and for Part IV of the L.M.G. course.

The qualifying scores given in Table III are intended for a standard range with normal lay-out.

Where a range, owing to the configuration of the ground, does not conform to the standard lay-out, the classification of 2nd and subsequent year men should be based on 60 per cent. of the H.P.S. for marksmen and 35 per cent. of the H.P.S. for service shots in the case of the L.M.G. and sniper's courses.

SECTION 2.—THE LIGHT MACHINE GUN COURSE

1. The L.M.G. is the principal weapon of the horsed cavalry regiment and the infantry battalion. Every man must, therefore, be highly trained in it.

2. This course is designed, in progressive stages, to train the soldier to apply his fire intelligently. Beginning with easy targets, he will later fire practices resembling active service conditions.

1st Year Men

- 3. i. 1st year men will normally fire Part I at the depot * and Parts II and III with the unit. But, if there is no 30-yards range at the depot, Part I will be fired with the unit.
- ii. The term "1st year men" includes recruits, and officers on first commission. Such officers, if not at the depot, and boys entering on their man's service, will fire with the unit those parts of the course which should normally be fired at the depot.*

Repetitions

4. There will be no repetition, but backward shots will receive further instruction and practice, the necessary ammunition being provided from the C.O.'s pool.

Coaching

- 5. See Pamphlet No. 1, Sec. 3, para. 4, and Appendix II.

Penalties for Short Bursts

6. Automatic practices will be fired in bursts of 4 to 5 rounds. A firer who, in any practice, fires more than one burst of less than 4 rounds will be penalized by the deduction of 5 points for each burst so fired from the score obtained in the practice. The last burst fired is exempt from this penalty. (Not applicable to Part I.)

Notes on "Battle-Shooting"

- 7. i. In the "battle shooting" parts of the course the range is divided into a firing area (from the 600 to the

* In the case of Household Cavalry and Cavalry of the Line (horsed), with the regiment.

300 yards firing points) and a target area (from the 300 yards firing point to and including the butts). The range is further divided into as many parallel lanes as space will allow, each lane being 12 yards wide (i.e. three target frames on a standard range). Targets may appear anywhere in each lane within the target area. For purposes of safety, lanes are marked on the ground by black and white posts and are numbered from left to right. When men are firing in lanes, conducting officers will ensure that each firer and his targets are confined to one lane. Certain practices combine fire with an advance, whilst in others the firers remain stationary. Practice 20 of Part IV will be fired in lanes. For all other practices the full target accommodation of the range will be used.

- ii. The essence of "battle shooting" is to practise firers in thinking for themselves. Apart from the initial order to load, no further orders will be given, except the number of rounds to be fired at each target or series of targets. Conducting officers should use ingenuity in varying the order in which targets appear for various details, provided that they do not make conditions appreciably more difficult for one detail than for another.
- iii. Figure targets, when exposed from the butts, will appear so that the scoring surface only is seen by the firer, and not the supporting pole.
- iv. During the "battle shooting" practices of the course, conducting officers on the firing point, in the butts and at the control post may find it of assistance to have with them brief instructions on the general lines indicated in the Appendix. These instructions should be framed to suit the particular range and to allow for variations in the positions and in the order of appearance of the various targets.

Fixed-line Practice

8. Every N.C.O. and man will fire or witness a "fixed-line" practice, as outlined in Sec. 6, para. 3 (c).

Classification

9. 1st year men will classify on Part III and subsequent year men on Part IV of the course.

TABLE I

[Facing p. 8.]

COURSES TO BE FIRED BY CAVALRY REGIMENTS (HORSED), INFANTRY AND M.G. BATTALIONS (EXCLUDING M.Gs.)

Category	Miniature rifle (.22-in.)		L.M.G. (.303-in.)				Rifle (.303-in.) rifle or sniper as applicable						A.A. (.303-in.)		A.T. rifle (.55-in.)	Pistol (.38-in.)		Field Firing	Mortar	
	Part I	Part II	Part I	Part II	Part III	Part IV	Part I	Part II	Part III	Part IV	Part V	Part VI	Rifle Practices	L.M.G. Practices	Parts I and II	Parts I, II & III	Part IV		3-in. Mortar	2-in. Mortar
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Infantry bns. and cavalry regts. (horsed)— 1st year men. At depot (a) ... With unit ...	All	All	All	All	All		All	All	All	All	All		All	All	3 men for each A.T. rifle on W.E. 2nd and subsequent year men.	Fired by all personnel armed with the pistol.	Fired by personnel of cavalry only, provided that they have qualified in Part III.	All	For details see Sec. 9.	Details will be notified later.
2nd and subsequent year men (less categories below) ...					All	All						All	All	All				All		
Snipers (72 for each bn.) (b) ...					All	All	All	All	All				All	All				All		
H.Q. sqn. or coy. 2nd and subsequent year men (less A.A. troop or platoon and carrier platoon).							All						All					All		
A.A. troop or platoon 2nd and subsequent year men.					All	All	All							All (c)				All		
Carrier platoon 2nd and subsequent year men.					All	All						All	All	All				All (d)		
Establishment at infantry depots			All (g)					All	All											
Wholly exempt (e) ...																		All		
M.G. bns.— 1st year men. M.G. depot (a) ... With unit ...	All	All					All	All	All	All			All							
2nd and subsequent year men							All						All							
A.A. platoon ...			All (f)				All							All (c)						

Notes.

- (a) Cavalry recruits and enlisted boys entering on man's service will fire these practices with their unit.
 (b) References under columns 8 to 10 are to the sniper's course.
 (c) To include Practice 5 (hose-pipe).
 (d) See Sec. 6.
 (e) Such personnel will be entitled to an allotment from the C.O.'s pool.
 (f) To fire Practices 1, 2 and 3 only, during the 1st year in A.A. platoon.
 (g) Not fired by the depot staff of M.G. battalions.

TABLE II.—AMMUNITION ALLOTMENT
CAVALRY REGIMENTS (HORSED), INFANTRY AND M.G. BATTALIONS (EXCLUDING M.Gs.)

Personnel for whom ammunition is allowed	·22-in.	·303-in. for courses as under							·38-in. (a)			·55-in. (b)			Mortar
		L.M.G.	Rifle	Snipers	A.A.	Field Firing	C.O.'s Pool	Total	For course	C.O.'s Pool	Total	For course	C.O.'s Pool	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
Infantry bns. and cavalry regts. (horsed)—															<p>A bulk allotment of ammunition will be notified annually by the War Office.</p> <p>For details of annual practice for the 3-in. mortar, see Sec. 9.</p> <p>Details concerning the 2-in. mortar will be issued later.</p>
1st year men. At depot ...	130 (c)	55	60	—	—	—	25	140	—	—	—	—	—	—	
With unit ...		135	75	—	30	20	55	315	38	18	56	—	—	—	
2nd and subsequent year men (less categories below).	30	193	45	—	30	20	55	343	38	18	56	25	5	30	
Snipers (72 for each bn.) ...	30	193	—	120	30	20	55	418	—	—	—	—	—	—	
H.Q. sqn. or coy. 2nd and sub- sequent year men (less A.A. troop or platoon and carrier platoon).	30	—	15	—	8	20	55	98	38	18	56	25	5	30	
A.A. troop or platoon. 2nd and subsequent year men.	30	193	15	—	82	20	55	365	38	18	56	25	5	30	
Carrier platoon. 2nd and sub- sequent year men.	30	193	45	—	30	20	55	343	38	18	56	25	5	30	
Establishments at infantry depots.	30	55	45	—	—	—	45	145	38	18	56	—	—	—	
Wholly exempt ...	30	—	—	—	—	—	55	55	38	18	56	—	—	—	
M.G. bns.—															
1st year men. M.G. depot ...	130 (c)	—	60	—	—	—	20	80	—	—	—	—	—	—	
With unit ...	—	—	45	—	8	—	10	63	38	18	56	—	—	—	
2nd and subsequent year men	30	—	15	—	8	—	5	28	38	18	56	25	5	30	
A.A. platoon ...	30	55 (d)	15	—	82	—	20	172	38	18	56	25	5	30	

Notes.

(a) Can only be claimed for personnel armed with the pistol. Personnel of cavalry regiments (horsed) who qualify in Part III are entitled to an additional 18 rounds of ·38-in. ammunition, plus 18 rounds of blank ·38-in. ammunition for Part IV. The allotment shown against 1st year men is for officers on first appointment only.

(b) Can only be claimed for personnel who fire the anti-tank rifle.

(c) Where the recruit normally remains for 18 weeks, 100 per cent. will be drawn at the depot. At the Guards Depot, the full 130 rounds will be drawn for each recruit who fires the miniature range course. In infantry depots where the recruit normally remains at the depot for less than 18 weeks, 60 per cent. will be drawn at the depot and 40 per cent. on his joining his battalion. Enlisted boys entering on man's service will be allotted 130 rounds ·22-in.

(d) 1st year men 25 rounds only.

8. I
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L.M.G. COURSE

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
1.	Single Rounds	Plain screen with 1-inch black aim- ing mark	25	5	<p>PART I (Fired at Depot) 30-YARDS RANGE</p> <p>The 5 rounds to be fired singly at the same aiming mark. To test accuracy of aim com- bined with trigger pressing.</p>	<p><i>Dress</i> Recruits.—Drill order, canvas or service dress. <i>Notes:</i>— 1. Part I will also be fired by trained soldiers on the establishment of de- pots. 2. Practices 2 and 3 will be fired consecutively by each firer without leaving the firing point. 3. At 25 yards sights should be set at the elevation required to hit 1 inch right of the point of aim in the case of the Bren (see Pamphlet No. 1, Appendix I, Para. 3, ii).</p>
2.	Automatic firing	Plain screen with 1-inch black aim- ing marks	25	10	To be fired in bursts of 4 or 5 rounds, each at different aiming mark. Object. —To practise holding, aim- ing, and regulating length of bursts.	<p>Scoring.—None, but posi- tion and shape of groups will be criticized. Each group will be marked for both grouping and application, the two markings being added together to obtain the score for each burst.</p>
3.	Application	"	25	10	To be fired in 2 bursts at differ- ent aiming marks, applying the groups from experience gained in Practice 2. Object. —To teach the application of a burst of fire to the mark.	

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
				PART I		Scoring.— If 4 shots within 2-inch ring, 10 points. If 4 shots within 3-inch ring, 6 points. If 4 shots within 4-inch ring, 2 points. If M.P.I. of burst is— Within 2 inches of point of aim, 10 points. Within 3 inches of point of aim, 6 points. H.P.S. for each burst, 20 points. Elevation for left line=500. Elevation for right line=400.
4.	Distribution (Single rounds)	Harmonized landscape target (L.M.G.)	25	10	Note.—5 rounds will be fired at each deployed line. Object.—To exercise men in quick aiming and distribution.	
5.	Application	"	25	20	The firer will fire a burst of 4 or 5 rounds, observe the position of the group with reference to the scoring area and then fire the remaining rounds. Note.—10 rounds will be fired at each group. Object.—To exercise men in observation and correction by suitable alteration in elevation or point of aim.	Scoring.— 1 point for each hit in the outline above each figure. H.P.S. 10. Elevation for left group=700. Elevation for right group=600. Scoring.— 1 point for each hit in the marked area above the figures. H.P.S. 20.
Total rounds				55		

PART II

(Fired by 1st year men with Unit)

6.	Ranging and fire discipline	Small	300	10	To be fired in single rounds, the firer observing and making the necessary corrections between each shot.	Dress.—Trained soldiers and recruits with unit—service dress, marching order and respirators in "alert" position.
7.	Application at slow rates	Small	300	15	15 rounds in one magazine. To be fired with suitable pauses in 3 or 4 bursts under the instructions of the coach. The M.P.I. will be signalled after each burst.	Scoring.—Each direct hit on scoring surface of target 2 points. H.P.S. 30 points.
Total rounds			Part II	25		

PART III

(Fired by 1st and subsequent year men of rifle companies or the corresponding unit in a horsed cavalry regiment, the A.A.L.M.G. troop or platoon, and the carrier platoon.)

Note.—All firing will be by bursts unless the conditions state otherwise.

8.	Single Rounds	Small	300	8	The first 3 shots will be for sighting and will be marked in the normal way. The target will be checked and shot-holes patched. It will then be exposed for 30 seconds. Gun loaded, sights adjusted and butt on the ground till the target appears.	Scoring.—As for rifle. H.P.S. 20.
9.*	Ranging	Small	300	15	To be fired in 3 or 4 bursts. The M.P.I. will be signalled after each burst.	*This practice does not count for classification.

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
10.	Changing from single rounds to automatic	1 Fig. No. 3. 3 Figs. No. 2.	300	PART 15	III—contd. One magazine. Firer loaded and in aim standing in trench using bipod, sights adjusted. The F.P. officer will signal for two exposures of 3 seconds each of Fig. No. 3. During these the firer will fire single rounds. As the second exposure goes down, the 3 Figs. No. 2 will be raised simultaneously and 5 feet apart for 10 seconds. The firer will change to automatic and fire ONE burst at each figure only. 24 rounds in 2 magazines (15 in one and 9 in the other). The firer will be lying behind the gun 5 yards in rear of the firing point, with ammunition in pouch.† Sights at 200 yards. The order "Prepare for action" will then be given. When all guns have been reported "Ready", the signal "Action" will be given, when the firer will move to the firing point, mount the gun, load, adjust sights and open fire. Fire will be distributed irregularly in bursts, as laid down in Pamphlet No. 2, Lesson 15. Time: 60 seconds allowed from the signal "Action."	No signalling. Scoring.—2 points a hit. H.P.S. 30.
11.	Action and distribution	L.M.G. screen in target frame	300	24		Scoring.—Each scoring rectangle containing: 1 shot counts 2 points. 2 " " 4 " " 3 " " 6 " " 4 or more shots counts 8 points. H.P.S. 40. †Until pouch equipment is issued, ammunition may be placed on the ground beside the gun.

*This practice does not count for classification.

Scoring.—Each direct hit on scoring surface of target, 2 points. H.P.S. 30 points.

12.*	Ranging	Large (con-vertible landscape)	500	8	To be fired in 2 bursts of 4 rounds each. The M.P.I. will be signalled after each burst. Gas. 15 rounds in one magazine. The conducting officer will give the order "3 bursts—Fire" and will time the pace of the practice by blowing his whistle twice at intervals of 12 seconds after having given the order to fire. The firer will be in the aiming position with the gun loaded, sights and respirator adjusted, and will fire one burst when the order "Fire" is given, and subsequently will fire one burst after each time the whistle sounds. Time limit, 40 seconds.	
13.	Application at slow rates	Large (con-vertible landscape)	500	15	15 rounds in one magazine. Firer in position on the firing point on the ground and sights at 200 yards until the target appears. As soon as the target is raised, the firer will adjust his sights and fire. The target will be exposed for 20 seconds.	
14.	Fleeting target	Large (con-vertible landscape)	500	15	To be fired in two bursts, any correction for aim and elevation to be made after the first burst.	Scoring.—Each direct hit on scoring surface of target, 2 points. H.P.S. 30.
15.	Tripod	Large (con-vertible landscape)	600 or 500	10		No scoring.
		Total rounds per individual, Part III		110		

1st year

Marksman L.M. gnr.—
 1st Class " " 80
 2nd " " 50 and under 80.
 3rd class L.M. gnr., under 50.

PART IV

(Fired by 2nd and subsequent year men only)

" BATTLE SHOOTING "

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
16.	Timed (single rounds)	Fig. No. 4A	300 yards F.P.	15	The firer will be lying in a position of readiness, 10 yards in rear of the firing point with the gun at "safe". The appearance of the target will be the signal to advance to the F.P. and fire. Exposure, 1 minute.	Scoring.—2 points per hit. H.P.S. 30.
17.*	Ranging	Large (con-vertible landscape)	500 yards F.P.	8	To be fired in 2 bursts. The position of the M.P.I. will be signalled after each burst.	*Note.—These practices do not count for classification.

18. Fleeting target Head-on tank 500 yards F.P. 14

14 rounds in one magazine. Firer in position on the firing point, with gun loaded, butt on the ground, and sights at 200 yards.

Scoring.—2 points per hit on scoring surface of target. H.P.S. 28.

19.* Ranging Large (con-vertible landscape) Phase I—Large (con-vertible landscape)

600 yards F.P.

10

To be fired in 2 bursts, M.P.I. to be signalled after each burst.

(Firer will begin the practice with 3 magazines, each containing 12 rounds which will eventually be carried in the new equipment.)

Notes.—
 i. Where classification ranges have not been adapted for battle shooting, see note i, page 28.
 ii. General Notes iii. to vi. inclusive (see page 29) apply to this practice, which is a continuous one.

Scoring.—2 points per hit on scoring surface of target. H.P.S. 24.

Scoring.—2 points per hit, up to a maximum of 4 hits, plus 4 points for each target hit. H.P.S. 16.

20. Advancing. Phase II—2 Figs. 4A on sledge (from "cover") representing enemy L.M.G. in action.

600 to 500 yards F.P.

12

Firer in position on the firing point, with gun loaded, butt on ground, and sights at 200 yards. Order "Watch your front", and signal for one exposure of 30 secs. of Target (D) from butts. On disappearance of Target (D), the order "Cease firing" will be given and the firers ordered to advance to 500 yards. On approaching 500 yards, F.P. order "Take cover—Watch your front," and signal for Target (G) to appear for 30 seconds.

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
	Advancing	Phase III— Group of 2 Figs. 3 and 1 Fig. 4A	500 yards F.P.	12	PART IV— <i>contd.</i> On disappearance of Target (G) order "Watch your front," and signal for one exposure of Target (F) for 30 seconds.	<i>Scoring.</i> —2 points per hit up to a maximum of 4 hits, plus 4 points for each target hit. H.P.S. 20. H.P.S. for Practice 20, 60. H.P.S. for Part IV, 118. STANDARD OF CLASSIFICATION, PART IV H.P.S. 118 Marksman ... 72 Service Shot ... 42 Failed ... under 42
			Total rounds Part IV ...	83		

SECTION 3.—THE RIFLE COURSE

1. The rifle is the personal protective weapon of the individual.

The object of this course is, therefore, to give a man confidence in his weapon to enable him to kill an enemy offering good target.

1st Year Men

2. i. 1st year men will normally fire the miniature rifle course complete and the rifle course, Parts I, II and III, at the depot* and the remainder with the unit.
- ii. The term "1st year men" includes recruits, and officers on first commission. Such officers, if not at the depot, and boys entering on their man's service, will fire with the unit those parts of the course which should normally be fired at the depot*.
- iii. Should no 30-yards or open range be available at the depot, Parts I, II and III will be fired after the recruit joins his unit. Whenever possible all practices of Parts II and III will be fired on an open range.
- iv. A 1st year man will not normally fire the 2nd year man's course during the same weapon training year as that in which he began to fire his 1st year man's course. 1st year men, however, will normally complete the course by firing Parts IV and V as soon as possible after joining their units from the depot.
- v. A 1st year man, however, who completes his course early in the weapon training year will, after a suitable interval of time during that year, also fire the course prescribed for 2nd and subsequent year men.

2nd and Subsequent Year Men

3. These are allotted 15 rounds each to enable them to sight their rifles at targets with definite aiming marks at various ranges. As the entire course for 2nd and subsequent year men is "battle shooting," it is important that this sighting should be carried out conscientiously.

* In the case of Household Cavalry and Cavalry of the Line (horsed), with the regiment.

Repetition

4. There will be no repetition but backward shots will receive further instruction and practice, the necessary ammunition being allotted from the C.O.'s pool.

Coaching

5. See Pamphlet No. 1, Sec. 3, para. 4, and Appendix II.

Notes on "Battle-Shooting"

6. i. In the "battle shooting" parts of the course the range is divided into a firing area (from the 600 to the 300 yards firing points) and a target area (from the 300 yards firing point to and including the butts). The range is further divided into as many parallel lanes as space will allow, each lane being 12 yards wide, i.e. three target frames on a standard range. Targets may appear anywhere in each lane within the target area. For purposes of safety, lanes are marked on the ground by black and white posts and are numbered from left to right.

When men are firing in lanes, conducting officers will ensure that each firer and his targets are confined to one lane. Certain practices combine fire with an advance, whilst in others the firers remain stationary. Practice 25 of Part V and the whole of Part VI will be fired in lanes. For all other practices the full target accommodation of the range will be used.

The essence of "battle shooting" is to practise firers in thinking for themselves. Apart from the initial order to load, no further orders will be given, except the number of rounds to be fired at each target or series of targets. Conducting officers should use ingenuity in varying the order in which targets appear for various details, provided that they do not make conditions appreciably more difficult for one detail than for another.

- ii. Figure targets, when exposed from the butts, will appear so that the scoring surface only is seen by the firer, and not the supporting pole.
- iii. During the "battle shooting" practices of the course, conducting officers on the firing point, in the butts and at the control post may find it of assistance to have with them brief instructions on the general lines indicated in the Appendix. These instructions should be framed to suit the particular range and to allow for variations in the positions and in the order of appearance of the various targets.

RIFLE COURSE

Throughout the course firing positions are referred to as (a), (b) and (c) and will be as described below (see Pamphlet No. 1, Sec. 3, para. 28).

- (a) **Wrist or forearm supported.**—Applicable to elementary instructional practices, such as grouping and first application. Sandbags may be adjusted by the coach to suit the firer.
- (b) **In the open.**—No support whatever in any position.
- (c) **Behind cover.**—The firer will adopt the positions as taught, adapting himself to the cover, firing round it if of an isolated nature, approaching and using the firing points as continuous cover, see Pamphlet No. 3, Lesson 20. In firing from a trench, the procedure in Lesson 22 will be followed.

MINIATURE RIFLE COURSE

(Fired at depot)

COACHING AT THE FIRING POINT WILL BE CARRIED OUT IN ALL PRACTICES OF THIS TABLE

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
	Preliminary practices	Representative	Representative	60	PART I Practices to be arranged by depot commander.	For details of targets, see S.A.T. Vol. V, 1931, Sec. 47.
A	Grouping	Small	Representative	5	PART II EMPIRE TEST Lying (b).	DRESS Drill order, canvas or service dress for all miniature range practices.
B	Slow	Small	"	5	Lying (b).	AVERAGE SCORES (as a guide only)
C	Slow	Large Convertible Bull's Eye	"	5	Lying (b).	1st Class 20 15 11 2nd Class 15 11 5
D	Snapshotting	Small snapshotting	"	5	*Standing in a trench (c). 5 seconds each exposure with 5 seconds interval. The rifle may be in the aim before the target appears.	H.P.S. 25 ... 20 15 H.P.S. 20 ... 15 11 H.P.S. 20 ... 8 5
		Total rounds	100	20		H.P.S. 15 ... 12 9
		C.O.'s Pool		50		80 ... 55 40
		Total rounds .22 Ammtn.		130		

*If a trench cannot be built or improvised, this practice may be fired lying behind cover with rifle rested.

STANDARD OF CLASSIFICATION
Qualified—40 points and over.
Failed—Under 40 points.

The Empire Test will not be repeated. Any recruit who fails to qualify will receive further instruction, the ammunition for this being taken from the C.O.'s pool.

RIFLE COURSE

PART I

(Fired at depot)

30-YARDS RANGE

5 Lying (a).

5 Lying (a).

5 Lying (b).

Total rounds

Part I ... 15

1. Grouping Small 200 yards

2. Grouping Small 200 yards

3. Grouping Small 200 yards

4. Grouping

5. Grouping

6. Slow

Grouping

Grouping

Small

PART II

(Fired at Depot)

OPEN RANGE OR ALTERNATIVELY 30-YDS. RANGE

5 Lying (a).

5 Lying (b).

5 Lying (a).

100

100

200

Notes.

i. A recruit's rifle will be zeroed in his presence before he begins to shoot.

ii. Trained soldiers on the establishment of depots will fire Parts II and III of rifle course.

DRESS

Recruits.—Drill order, canvas or service dress.

Trained soldiers.—Service dress, marching order, and respirator in alert position.

When Part II is fired on the 30-yds. range, the practices will be the same as on the open range except that representative targets will be used. Where

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
7.	Timed	Small	200	5	<p>PART II—<i>contd.</i></p> <p>Lying (a), but the firer will be standing at the "Order" until the target appears or the order to fire is given. Rifle unloaded; ammunition in the pouch, which will be buttoned; safety catch back and sights adjusted. Time 60 seconds. (45 seconds for trained soldiers at depots.)</p> <p>Lying (b). Rifle loaded, sights adjusted and safety catch forward. Butt and nose cap to be touching the ground before each exposure. Exposure, 6 secs. for each shot.</p>	facilities do not exist for raising and lowering the targets, Practices 7 and 8 may be carried out by word of command with the targets exposed.
8.	Snapshotting	Small	200	5		
9. 10.	Grouping Slow	Grouping Small	100 200	5 5		
<p style="text-align: center;">PART III <i>Recruit's Test</i> (Fired at Depot)</p> <p style="text-align: center;">OPEN RANGE OR ALTERNATIVELY 30-YDS. RANGE</p>						
Total rounds Part II ...				25		

†Trained soldiers at infantry depots will fire this practice with fixed bayonets and wearing respirators.

11.	Snapshotting	Small	200	5	<p>Lying (b). Rifle loaded, sights adjusted and safety catch forward. Butt and nose cap to be touching the ground before each exposure. Exposure, 5 seconds for each shot.</p>	When Part III is fired on the 30-yds. range, the practices will be the same as on the open range except that representative targets will be used. Where facilities do not exist for raising and lowering the target, Practices 11 and 12 may be carried out by word of command with the target exposed.
12.	Timed	Small	200	5	<p>Lying (b), but the firer will be lying 10 yards behind the firing point until the target appears or the order to fire is given. Rifle unloaded; ammunition in the pouch, which will be buttoned; safety catch back and sights not adjusted. On the appearance of the target, the firer will put on his respirator, double to the firing point, load and fire. The sights will be adjusted on arrival at the firing point. Time, 60 seconds. (50 seconds for trained soldiers at depots.)</p>	
Total rounds Part III ...				20		

Standard of Qualification. Part III

H.P.S. 85

STANDARD SCORE FOR TRAINED SOLDIERS AT DEPOT—60 POINTS.

STANDARD SCORE FOR RECRUITS—45 POINTS.

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
<p style="text-align: center;">PART IV (Fired by 1st year men as a preliminary to the C.O.'s Test)</p>						
13. 14. 15.	Grouping Slow Timed	Grouping Small Small	100	5	<p>PRELIMINARY Lying (b). Rifle loaded with 5 rounds, remaining 5 to be in the pouch or bandolier, which will be buttoned. Sights adjusted, safety catch forward; butt and nose cap touching the ground until the target appears. Time, 50 seconds. Kneeling or sitting (b). Gas. Lying (b). Gas. Standing in trench (c) provided with an elbow rest. Rifle loaded with 5 rounds, remaining 5 in pouch or bandolier; bayonet fixed, respirator adjusted. Firer in "Position of readiness" (i.e. sights adjusted, safety catch forward, the whole of the rifle and bayonet concealed.) Time, 65 seconds. Lying (c) round cover, butt and nose cap to be touching the ground before each exposure. Exposure, 5 seconds for each shot.</p>	<p><i>Note.</i>— In all "Gas" practices throughout the course, a short interval should be allowed after the order "Gas," to allow eye-pieces to clear.</p>
			200	5		
			200	10		
16. 17. 18.	Slow Slow Timed	Small Small Small	200	5		
			300	5		
			300	10		
19.	Snap-shooting	Large snap-shooting	300	5		
			Total rounds Part IV	45		

PART V

(Fired by 1st year men)

The C.O.'s Test for the Selection of Snipers

BATTLE SHOOTING

Coaching is not permitted (see Pamphlet No. 1, Sec. 3, para. 4).

GENERAL NOTES.

- i. In practices or phases where two or more targets are exposed simultaneously, the method of scoring will be:—3 points for each hit (except in Practice 21), plus *bonus* of 5 additional points if all targets exposed are hit.
- ii. Block capitals in brackets refer to target numbers as shown on the plan of the range (see Fig. I, page 32).
- iii. In practices in which targets appear from behind cover, the exposure will be gradual.
- iv. All targets in Practices 20 to 23 will appear from the butts.

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
20.	Snap-shooting	Fig. No. 3	200	5	Lying (b). Rifle loaded, sights adjusted, safety catch applied. Order, "Watch your front." 5 exposures, each of 4 seconds at irregular intervals of time over a period of 2 minutes, the last exposure to be in the last 30 seconds. 2 exposures will be in quick succession, with an interval of 4 seconds.	Scoring.—3 points for each hit. H.P.S. 15.
21.	Falling target	3 Figs. No. 3	300	5	Lying (c) isolated cover, rifle loaded, sights adjusted, safety catch back. Order, "Watch your front." Targets exposed for 1 minute: each figure will disappear when hit.	Scoring.—5 points for each target hit. Bonus=5. H.P.S. 20.

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
22.	Timed	Head-on tank	300	PART 5	V— <i>contd.</i> Standing in trench (c), rifle loaded. Gas. Firer in "position of readiness" until target appears. One exposure of 30 secs.	Scoring.—4 points for each hit in the rectangle surrounding any slit. 2 points for the remain- der of the black. H.P.S. 20. <i>Note.</i> —In order to save time it is suggested that Practices 21 and 22 be fired in succession by the same detail, targets for Practice 22 being placed in the back and the fall- ing targets in the front frame, both targets half- masted till practice be- gins.
23.	Advancing	Phase I ($\frac{1}{2}$ Fig. No. 2)	300-100	10	Lying (b) at 400 yards, loaded with 5 rounds, safety catch back, sights at 400 yards. Phase I.—On appearance of tar- gets from butts ($\frac{1}{2}$ Fig. No. 2), firer doubles forward to 300 yards, adjusts sights and fires 5 rounds lying (b). Time, 1 minute.	Scoring.—3 points for each hit on target. H.P.S. 30.

Phase II ($\frac{1}{2}$ Fig. No. 2)	Phase II.—As soon as Phase I is completed, firer will imme- diately load with 5 rounds, apply safety catch, fix bayonet and await order from conducting officer to advance (at the double) to 200 yards. On this advance being ordered, a signal will be given to the butts to indicate that Phase II has begun. 45 secs. after this signal, the targets ($\frac{1}{2}$ Fig. No. 2) will be exposed 3 times for 4 secs. during a period of 45 secs., the last exposure to be in the last 15 secs. One shot will be fired at each exposure. Sights will not be adjusted till the firer reaches the 200 yards firing point. Position kneeling or sitting (b). Imme- diately after the last exposure in Phase II, the conducting officer will order "Safety catches back —Advance".
Phase III (Fig. No. 3)	Phase III.—5 secs. after final exposure in Phase II, the targets (Kneeling Figs. No. 3) will be exposed for 45 secs., during which time the firer will advance to 100 yards and fire 2 rounds in standing position.

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
PART V (contd.)						
Notes.						
i. This practice will be fired in lanes. Where classification ranges have not been adapted for battle shooting, C.Os. will improvise similar practices by arranging for the targets as specified in column 3, which would normally appear in lanes, to be exposed in the butts on a three-target frontage.						
ii. The way in which the practice is carried out should be varied, at the discretion of the supervising officer, so that firers are unaware of conditions until they are in position on the firing point.						
iii. Before beginning, firers will be warned to take on all targets appearing on their front. They will not be told where targets will appear but must judge distances and adjust sights accordingly. Warn firers that not more than 5 rounds will be fired in each phase.						
iv. One only of the following variations (i), (ii) or (iii) will be fired by each man.						
24(i)	Snap-shooting	2 Figs. No. 2	500 yards F.P.	5	Lying (c) (isolated cover). Rifle loaded, safety catch back, sights at 500. Order "Watch your front" and signal for 5 exposures (the first exposure will be for 15 seconds and the remainder of 5 seconds of Target (J) or (K)). Interval between exposures, 5 seconds.	Scoring.—3 points per hit, plus bonus (see General Note i, page 25). H.P.S. 20.
(ii)	Timed (gas)	2 Figs. No. 2	500 yards F.P.	5	Lying (b). Rifle loaded, safety catch back, sights at 500. Order, "Gas"—"Watch your front". Signal for one exposure of 45 seconds of Target (J) or (K).	
(iii)	Slow	2 Figs. No. 3	500 yards F.P.	5	Lying (b). Rifle loaded, safety catch back, sights at 500 yards. Order, "Watch your front" and signal for one exposure of 1 minute of Target (H).	
				Total rounds	30	

There will be no classification but, on the results of this test, C.Os. will select men for training as snipers.

PART VI

BATTLE SHOOTING

(Fired by 2nd and subsequent year men only)

GENERAL NOTES.

- Where two or more targets are exposed simultaneously in a practice or phase, the firer will, where mentioned in the column of remarks on the practice, receive a bonus of points if all targets are hit.
- Explain to firers before they begin that all practices are slow unless otherwise stated (i.e. "Rapid" "Snap"), that they will engage all targets appearing in their lane and that they will be told before each exposure how many rounds to fire.
- On no account will firers be told where their targets will appear. They will judge the distance themselves and adjust sights accordingly.
- The block capitals in brackets indicate the position of the targets as shown in the plan of the range (see Fig. 1, page 32).
- All targets which are exposed from behind cover will appear very gradually.
- In order that men do not become familiar with the positions in which targets appear, the order of appearance of targets in each phase will be varied at the discretion of conducting officers.
- Part VI will be fired through continuously as one practice and 30 rounds will be issued to each man before starting.
- Before firing Part VI, each man will be given an opportunity of sighting his rifle. 15 rounds per man are allotted for this purpose.
- See also the Appendix to this pamphlet.

No.	Practice.	Target	Fired from	Rds.	Detail	Remarks
25.	Phase I Timed	2 Figs. No. 4A	500 yards F.P.	5	Lying (c), position of readiness round cover, rifle loaded, with sights at 500. Order, "Watch your front." Target (G) exposed for 1 minute.	Scoring.—3 points per hit = 15. H.P.S. = 15.
	Timed	2 Figs. No. 3	"	3	Shortly after Target (G) has disappeared, order "Watch your front," and signal for Target (H) to be exposed once for 35 seconds.	
	Snap-shooting	2 Figs. No. 2	"	2	Shortly after Target (H) has disappeared, order "Watch your front," and signal for Target (J) or (K) to be exposed once for 15 seconds.	

3 points per hit = 15.
Bonus if all targets in both groups (H) and (J) or (K) are hit, 5.
H.P.S. 20.

BATTLE SHOOTING TARGETS ON CLASSIFICATION RANGE.

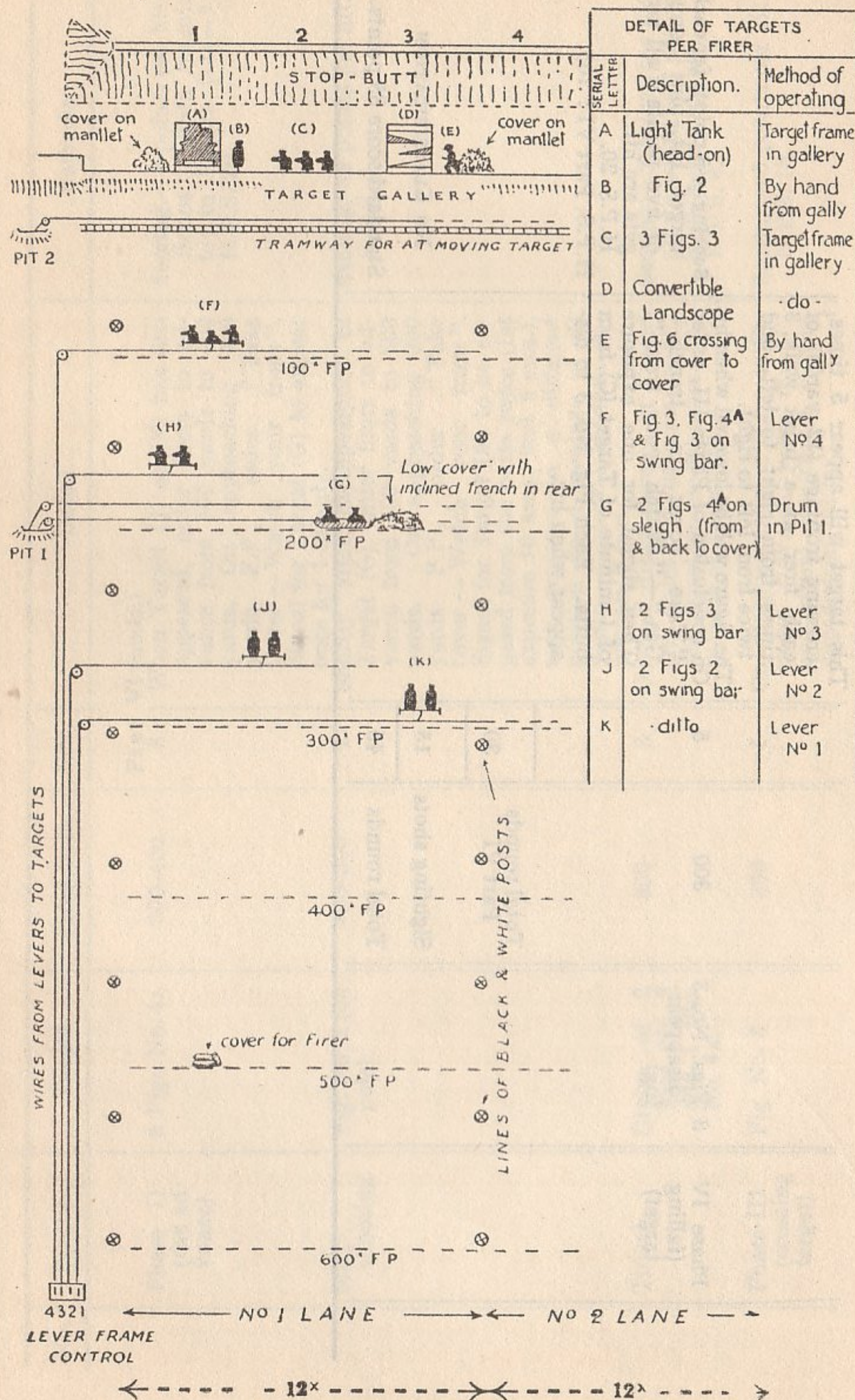


Fig. 1

SECTION 4.—THE SNIPER'S COURSE

1. The sniper must be expert in fieldcraft, an art without which he cannot perform his duties as a skilled marksman (see Infantry Training, 1937, Chapter VII).

He must also reach a very high standard of accuracy, and must be able to take a quick shot that will ensure the destruction of his enemy.

In addition he must be prepared, on occasions, to wait for long periods, sometimes in a cramped position, before he has an opportunity to engage his targets.

2. This course has been designed to train those men specially selected, on these lines.

3. During his first year of service, each man will have fired Part V of the Rifle Course and, on the results obtained, a C.O. will be able to select men suitable for training as snipers. Such men, up to the number authorized in establishments, will therefore fire the Sniper's Course in place of the Rifle Course, Part VI.

4. A man who has once fired this course will not necessarily continue to do so for the remainder of his service. Should a C.O. consider that any man is not up to the required standard, he will, in subsequent years, fire the Rifle Course, Part VI, his place as a sniper being taken by another man.

5. Men selected for training as snipers will fire the course laid down in Table I.

Repetitions

6. A man who fails to obtain the qualifying standard laid down will not repeat the course. He may, however, receive further instruction and practice at the discretion of the C.O., the necessary ammunition being allotted from the C.O.'s pool.

Coaching

7. Coaching is permitted in Parts I and II. It is to be noted that in Part III an observer is permitted (cf. Example No. 3).

Notes on "Battle-Shooting"

8. i. In the "battle shooting" parts of the course the range is divided into a firing area (from the 600 to the 300 yards firing points) and a target area (from the

300 yards firing point to and including the butts). The range is further divided into as many parallel lanes as space will allow, each lane being 12 yards wide (i.e. three target frames on a standard range). Targets may appear anywhere in each lane within the target area. For purposes of safety, lanes are marked on the ground by black and white posts and are numbered from left to right.

When men are firing in lanes, conducting officers will ensure that each firer and his targets are confined to one lane. Certain practices combine fire with an advance, whilst in others the firers remain stationary. Practice 3 of Part I and the whole of Part II will be fired in lanes. For all other practices the full target accommodation of the range will be used.

- ii. The essence of "battle shooting" is to practise firers in thinking for themselves. Apart from the initial order to load, no further orders will be given, except the number of rounds to be fired at each target or series of targets. Conducting officers should use ingenuity in varying the order in which targets appear for various details, provided that they do not make conditions appreciably more difficult for one detail than for another.
- iii. Figure targets, when exposed from the butts, will appear so that the scoring surface only is seen by the firer, and not the supporting pole.
- iv. During the "battle shooting" practices, conducting officers on the firing point, in the butts and at the control post may find it of assistance to have with them brief instructions on the general lines indicated in the Appendix. These instructions should be framed to suit the particular range and to allow for variations in the positions and in the order of appearance of the various targets.

THE SNIPER'S COURSE

PART I

BATTLE SHOOTING

GENERAL NOTES

- i. Block capitals in brackets refer to target numbers as shown on the plan of the range (see Fig. 1, page 32).
- ii. In practices in which targets appear from behind cover, the exposure will be gradual.
- iii. All targets in Practices 1, 2 and 5 will appear from the butts.

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
1.	Falling target	3 Figs. No. 4A	200	5	Lying (c) isolated cover, rifle loaded, sights adjusted, safety catch back. Order, "Watch your front". Targets exposed for 45 seconds: each figure will disappear when hit.	Scoring.—5 points for each target hit. Bonus=5. H.P.S. 20.
2.	Snap-shooting	Fig. No. 3	200	5	Lying (b). Rifle loaded, sights adjusted, safety catch applied. Order, "Watch your front". 5 exposures, each of 4 seconds at irregular intervals of time over a period of 2 minutes, the last exposure to be in the last 30 seconds, 2 exposures will be in quick succession, with an interval of 4 seconds.	Scoring.—3 points for each hit. H.P.S. 15.

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
3.	Advancing	Phase I (2 Figs. No. 3)	500-400	PART I 5	I—contd. Lying (b) at 500 yards. Rifle loaded, safety catch back. On order "Advance" firer moves to 400 yards. As he approaches 400 yards F.P., order "Take cover" followed by "Watch your front". Signal for Targets (H) or (F) to be exposed for 30 seconds.	Scoring.—3 points per hit, plus bonus 5 points. H.P.S. for Phase I, 20.
	"	Phase II (3 Figs. No. 4A (disappearing))	400-300	5	Lying (c) at 400 yards. Rifle loaded, safety catch back. On order "Advance" firer moves to 300 yards. As he approaches 300 yards F.P., order "Take cover in trench" followed by "Watch your front". Firers will adopt position of readiness. Target (C) exposed from butts for 1 minute on signal from firing point. Each figure will disappear when hit.	Scoring.—5 points for each target hit, plus bonus 5 points. H.P.S. for Phase II, 20. H.P.S. for Practice 3, 40.
4.	Endurance	2 Figs. No. 2 fitted in adjoining sockets in falling target frame	500	5	Lying (c). Rifle loaded, safety catch applied. Sights adjusted, firer will be in the aim. Target exposed from butts 5 times over a period of 4 minutes, irregular intervals between exposures, the fifth to be during the last 30 seconds. Time for each exposure, 6 seconds from the time the target begins to appear.	Scoring.—4 points for each hit on the target, plus bonus 5 points. H.P.S. 25.

5.	Slow	Large convertible landscape target	600	5	posures, the fifth to be during the last 30 seconds. Time for each exposure, 6 seconds from the time the target begins to appear.	Scoring.—Normal. H.P.S. 20. H.P.S. for Part I, 120. Standard score 70.
			Total rounds Part I ...	30	Lying (c). First and second shots only to be signalled.	

PART II BATTLE SHOOTING GENERAL NOTES.

FIRED IN LANES

- i. Where two or more targets are exposed simultaneously in a practice or phase, the firer will, where mentioned in the column of remarks on the practice, receive a bonus of points if all targets are hit.
- ii. Explain to firers before they begin that all practices are slow unless otherwise stated (i.e. "Rapid" "Snap"), that they will engage all targets appearing in their lane and that they will be told before each exposure how many rounds to fire.
- iii. On no account will firers be told where their targets will appear. They will judge the distance themselves and adjust sights accordingly.
- iv. The block capitals in brackets indicate the position of the targets as shown in the plan of the range (see Fig. 1, page 32).
- v. All targets which are exposed from behind cover will appear very gradually.
- vi. In order that men do not become familiar with the positions in which targets appear, the order of appearance of targets in each phase will be varied at the discretion of conducting officers.
- vii. Part II will be fired through continuously as one practice and 30 rounds will be issued to each man before starting.
- viii. See also the Appendix to this Pamphlet.

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No.	Practice	Target	Fired from	Rds.	Detail	Remarks
6.	Phase I, Application	Large convertible landscape	500 yards F.P.	5	Lying (c), position of readiness round cover, rifle loaded, with sights at 500. Order, "Watch your front". Target (D) exposed from butts for 1 minute.	Scoring.—Normal (i.e. 4, 3, 2, 1). H.P.S. 20. 3 points per hit=15. Bonus if all targets in both groups (H) and (J) or (K) are hit, 5. H.P.S. 20. H.P.S. for Phase I, 40.
	"	2 Figs. No. 3	"	3	Shortly after Target (D) has disappeared, order "Watch your front", and signal for Target (H) to be exposed once for 35 seconds.	
	Snap-shooting	2 Figs. No. 2	"	2	Shortly after Target (H) has disappeared, order "Watch your front", and signal for Target (J) or (K) to be exposed once for 15 seconds.	

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Phase II (the advance)	2 Figs. No. 4A	500-400	5	When Target (J) or (K) has disappeared, order firers to advance from 500 yards to 400 yards. On approaching 400 yards F.P., order "Take Cover—Watch your front". Signal for Target (G) to appear once for 1 minute.	Scoring.—3 points per hit. H.P.S. 15.
Snap-shooting	Fig. No. 2 (on pole)	400-300	2	Shortly after disappearance of Target (G), order firers to advance from 400 yards to 300 yards. On approaching 300 yards F.P., order "Take cover—Watch your front". Signal for Target (B) to be exposed from the butts twice (1st exposure 10 seconds, 2nd 5 seconds), each exposure in a different position on a frontage of 12 yards. Interval between exposures, 7 seconds.	Scoring.—3 points per hit. H.P.S. 6.
Timed	Group of 2 Figs. No. 3 and 1 Fig. No. 4A	300	3	On final disappearance of Target (B), order "Watch your front", and signal for one exposure of 20 seconds of Target (F).	Scoring.—2 points per hit plus a bonus of 3 points if all targets are hit. H.P.S. 9. H.P.S. for Phase II, 30.
Phase III (crossing target)	Fig. No. 6	300	5	On disappearance of Target (F), order "Watch your front", and signal for Target (E) to appear from butts. This target will appear 5 times, crossing frontage (12 yards) of each firer at a brisk walk, 3 times from right to left, and twice from left to right. The figure will be lowered when hit.	Scoring.—3 points per hit. H.P.S. 15.

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
	Phase IV (falling target)	3 Figs. No. 3 (disappear- ing)	300	PART 5	II— <i>contd.</i> On conclusion of Phase III, order "Take cover in trench—Gas— Watch your front". Then signal for one exposure of 1 minute of Target (C) from butts. Each Fig. No. 3 to dis- appear when hit.	Scoring.—5 points for each target hit, plus bonus of five points if all targets are hit. H.P.S. 20. H.P.S. Part II: 105. QUALIFYING STANDARD— 50.
			Total rounds Part II	30		

PART III

This will be carried out on the field firing range if available, otherwise on the "battle shooting" range. Each sniper will be allotted 60 rounds, and the ammunition will be used at the discretion of the C.O. to carry out further training of snipers.

It is not intended to lay down any specific practices, for range facilities vary in every station, whilst the standard amongst the men selected as snipers is unlikely to be uniform. C.Os. will therefore be given a free hand to decide on the type of practices which the sniper will fire, bearing in mind that the object will be to produce an expert shot who can combine field-craft with shooting efficiency. It may be found necessary to divide up the snipers into two categories in order that the really good shots are not held back.

It is probable that C.Os. may wish to repeat some of the practices already fired, under harder conditions. After that, exercises on the lines indicated in the examples set out below are recommended. These examples are given merely as a guide.

A few of the best shots will also be given facilities for firing with the telescopic rifle.

Example I

Object.—To train a man to pick up a difficult target and take a quick and accurate shot as soon as it appears.

Targets.—Varied in size and colour and appearing anywhere within a given sector.

Ranges.—Various up to 600 yards.

S.A.A.—At the discretion of the C.O.

Method.—The firers will be in position, with rifles loaded and will be told to watch a certain sector. The right (or left) hand firer will be told to fire one round when he sees a target appear. If a target appears and is not seen by the firer, he will be told to unload one round. At the next exposure, the next man will engage the target under the same conditions as above and so on until all firers have used or unloaded the number of rounds allotted.

Exposures.—At the discretion of the C.O. A suggested method of controlling targets and exposures is to have a central control pit connected with other pits by means of ropes attached to markers in the pits. The N.C.O. in charge of the control pit requires a periscope so that he can watch for signals from the firing point.

Example II

Object.—To train a man to search an area in which he knows enemy are hidden.

Targets.—Various, to suit the area.

Ranges.—Up to 600 yards.

S.A.A.—At the discretion of the C.O.

Method.—The firer will be allotted a locality in which he will select a position, and be told that a certain number of enemy are to be found in the area. A time limit will be given, during which he will endeavour to locate and fire one round at each target. The area might be divided up into sub-areas so that several men may fire at once. Again it might be run in the form of a competition in which several men compete against each other in spotting and hitting the enemy.

Example III

Object.—To train the section snipers to assist the advance of their section or platoon. Bringing out:—

- i. Use of ground.
- ii. Observation.
- iii. Accuracy of fire.

Method.—The two snipers will be brought to a position and told that their section has been held up by an enemy L.M.G. about 600 yards away. Its approximate position will be pointed out. The snipers will then be given, say, five minutes in which to move off to a suitable position from which to engage and kill the enemy. If possible, the target will be placed near a markers' pit from where the snipers' movements can be observed with a reflecting mirror. If they expose themselves, one of the markers might fire at the slow rate with blank.

Having reached a position from where the sniper decides to engage the target, one man should fire whilst the other observes.

Points for discussion.

- i. Initial plan (including arrangement for mutual assistance.)
- ii. Use of ground and cover during movement and selection of position.
- iii. Method of searching ground.
- iv. Accuracy of fire.

Danger areas.

In conducting the above type of practices great care should be taken to ensure that they conform to the local safety conditions.

SECTION 5.—THE ANTI-AIRCRAFT COURSE

(Rifle and L.M.G.)

1. This course is designed to exercise riflemen and L.M. gunners in applying the principles contained in Pamphlet No. 6. Full application of these principles is, however, restricted by the necessity for observing safety precautions.

2. All personnel, other than those totally exempt, will fire the practices of this course as laid down in Table I. There will be no classification.

ANTI-AIRCRAFT COURSE

No.	Practice	Target	Distance in yards	Rds.	Remarks
1.	A.A. Rapid Fire (Rifleman)	A.A. Attacker	10	5 (for each man)	Fired by a group of 3 firers. Instructor orders "Standing—Charge magazines—500—Aircraft action." Instructor indicates target, then orders "Aircraft front—Rapid fire". After 2 or 3 rounds instructor orders "Stop", and then indicates another target. Orders "Aircraft front—Rapid Fire—Stop—Unload". Time limit for each series of shots will be 10 seconds, taken from the order "Fire" in each case. At the conclusion of each group's firing, instructor will criticize results. With grouping ring on centre of target all shots should be inside the 12-inch circle. Those within the 4-inch circle may be considered effective. (No scoring.)
2.	A.A. Rapid Fire (Rifleman)	A.A. Crossing	10	3	Fired by a group of 3 firers. Instructor orders "Standing—Charge magazines—500—Aircraft action"—Aircraft front—Rapid Fire". The last command will be given as the target starts to move, the signal for which will be given by the instructor. The men will fire <i>one</i> round at each run, reloading in the shoulder. 3 runs, each of 3 seconds. The target will be criticized at conclusion of each practice. <i>Note.</i> —On the command "Aircraft front", each firer will direct his rifle on the 12 degrees lead and swing along the line of flight as the target moves. (No scoring.)
3.	A.A. (L.M.G.)	A.A. Attacker	10	8	Firer standing behind L.M.G. mounted on tripod. Instructor orders "Load—500—Aircraft action" and indicates target; then "Aircraft front—Rapid fire". Firer fires one long burst. Time limit, 5 seconds from order "Rapid Fire". Group will be criticized on conclusion of practice. With centre of grouping ring on centre of target (or, in case of

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4.	A.A. (L.M.G.)	A.A. Crossing	10	14	Bren, 1 inch right of centre of target) all shots should be within an 8-inch circle. (No scoring.) Firer with 7 rounds in each of 2 magazines. Instructor orders "Load—500—Aircraft action—Aircraft front—Rapid fire". Last command to be given as target starts to move. Man fires a long burst at each of 2 runs. Time for each run, 3 seconds. Target will be criticized after <i>each magazine</i> has been fired. <i>Note.</i> —On the command "Aircraft front", the firer will direct his gun on the 12 degrees lead and swing along the line of flight as the target moves, the signal for which will be given by the instructor simultaneously with the order "Rapid fire". (No scoring.)
Total rounds				30	

45

2ND AND SUBSEQUENT YEAR MEN OF A.A. TROOP OR PLATOON ONLY

5.	Hosepipe (To be fired where facilities exist)	Balloons or towed drogue targets	Accord- ing to area	2 maga- zines for each man for all H.Q., A.A. L.M. gunners (60 rds.)	When a range has been established and passed in accordance with the regulations as suitable for A.A. firing with .303-in., good practice in observing the stream of tracer ammunition can be given by firing at hydrogen-filled balloons. The direction of the wind must be ascertained before firing begins, and balloons released so as to give suitable crossing targets. The limits of the permissible arcs of fire must be clearly marked and an officer detailed to each gun to stop firing when the target passes the limit. Tracer ammunition, for this purpose, in the proportion of 50 : 50, will be used. This practice can be fired at towed drogues if the necessary arrangements can be made with the R.A.F. for towing.
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SECTION 6.—FIELD FIRING

(See Pamphlet No. 1, Sec. 3, paras. 29 to 40.)

Note.—The term "battle-shooting" refers to the individual practices at service targets fired in the L.M.G., rifle and sniper's courses.

The term "field-firing" refers to collective exercises carried out by sub-units with ball ammunition on field-firing ranges. These exercises will be drawn up under arrangements made by C.Os. They may be designed on a section, platoon or company basis.

1. .303-in. ammunition for field-firing is allotted on a basis of 20 rounds for each man. This ammunition will be used exclusively for field-firing, except that, if facilities for carrying out field-firing do not exist, it may then be used for additional "battle shooting," but for no other purpose.

2. So far as possible, exercises should be framed to bring out co-operative use of the various platoon weapons, in conjunction with the use of ground and formations.

3. L.M.G.

- (a) Practices will include firing from the bipod at ranges up to 1,000 yards.
- (b) Personnel of the carrier platoon will be given exercises involving firing from the tripod at ranges up to 1,500 yards.
- (c) A fixed line demonstration will be carried out, after which individuals will be exercised within the limits of ammunition allowed by the C.O. 15 or 20 rounds should be sufficient to test the fire effect obtained. It is important that those witnessing the demonstration should have an opportunity of seeing the results of the shooting. (See Pamphlet No. 4, Lesson 19, page 41.)

Before individuals are exercised the tripod will be moved and firers practised in the above procedure.

In this demonstration a proportion of tracer ammunition should be used, as it will assist in observation by spectators.

SECTION 7.—THE ANTI-TANK RIFLE COURSE

(See Pamphlet No. 5, General, para. 5.)

1. The course is designed to give practice in firing at :—

- i. Crossing targets.
- ii. Fleeting (snapshooting) targets.

2. On account of the high penetrative powers and the great range of the anti-tank rifle, safety considerations on many range areas prohibit fire with .55 ammunition. Part I of the course is, therefore, designed to overcome this difficulty. The size of the target, its speed, and the range, are reduced to $\frac{1}{5}$ those of the normal. (For details see para. 6.)

Part I is also intended to enable men to practise aiming and swinging under the simplest conditions before they fire .55-in. ammunition for the first time.

3. Part II will then be fired on an anti-tank rifle range. In stations at or near which anti-tank rifle ranges do not exist and where arrangements cannot be made for men to proceed to an anti-tank range to practise, men will fire up to 5 rounds of .55-in. ammunition, at 25 yards, into the stop butt of a classification range, to accustom them to the effect of such firing.

.55-in. ammunition will never be fired on a 30-yards range unless it has been passed for this purpose.

4. On anti-tank rifle ranges where targets are placed in the open, the following system of signalling will be employed :—

The target will be so placed that men in a pit to a flank can see the shot-holes. At the firing point there should be a 6-in. replica target, which can be made under unit arrangements. Both targets are divided into 1-ft. squares (see Fig. 2). These squares will be numbered from left to right, and from bottom to top. Thus, on the arrival of a shot on the target, the markers in the pit notify the firing point by telephone of its position by indicating, on the lines of an ordinary map reference, the square in which the shot-holes lie. If, therefore, a shot arrives on the target at "X" (see Fig. 2), the marker merely telephones "Square 34". The position of the shot is then plotted on the target at the firing point.

5. The ultimate aim must be to train all men in firing the A.T. rifle. For the immediate future, units will train three men for each A.T. rifle on their establishment. The best .303-in. rifle shots should be selected. Practice in aiming off and swing can be obtained by using the normal traffic passing along roads in the vicinity of barracks as aiming marks.

6. Instructions for Anti-Tank Rifle 1/5th Scale Shooting with .22 Ammunition.

Procedure.

(a) At the Firing Point.

- i. Select a firing point opposite the centre of the target run, ascertain its distance from the latter and note which line in the Range Table applies.
- ii. Ascertain that two posts are erected 62 feet apart alongside the target run, which may be any convenient greater length.
- iii. Zero the .22 rifle at a stationary target at the range to be used so that shots hit a point aimed at with the anti-tank rifle sights.

Note.—At 100 yards a 4-in. group should be obtained.

The zeroing of the .22 rifle should be checked periodically during firing, especially if a constant error appears.

- iv. Instruct firers to use the left-hand target for movement left to right, the right-hand target for movement right to left, and to take always the standard lead irrespective of the target speed.
- v. During each run of the target, time the latter over the 62 feet between the posts in seconds, refer to the appropriate line and column in the Range Table, read off the distance in inches which the shots should be in front of or behind the centre of the target, and telephone this to the butts.

Note.—An ordinary watch with the second hand is sufficiently accurate for timing if a stop-watch is not available.

(b) In the Butts.

- vi.* Hang two targets on the screen, one at each end, and wedge them so that they do not move.
- vii.* After each double run, on receiving from the firing point the position of the correct shot with reference to the centre of the target, apply the scoring template to the screen with its centre in this position. The bar of the template is graduated in inches for this purpose. Note the position of each shot in relation to the template and signal this to the firing point,

* On ranges used only by the A.T. rifle the two targets may be pasted on the screen and the latter provided with a series of holes along the top numbered to show inches from the centre of each target. In this case the template should be hung from the appropriate hole by a hook, so arranged that, when it is in hole 0, the template coincides with the target (see Fig. 4).

either by telephone using the clock ray method, or by displaying a target with spotting discs on it.

(c) At the Firing Point.

- viii. Mark the position of each shot on a duplicate target at the firing point and criticise.

Example.—Range 80 yards.

Time of run left to right—7 seconds.

Time of run right to left—12 seconds.

One shot fired at each run.

Firing Point to Butts.—Left target—4 inches in front.

Right target—17 inches in front.

(BUTT CHECKS.)

Butt to Firing Point.—Left target—Miss, left, 8 o'clock, 20 inches.

Right Target—Hit, right, 3 o'clock, 4 inches.

THE 6-FT. HEAD-ON TANK TARGET

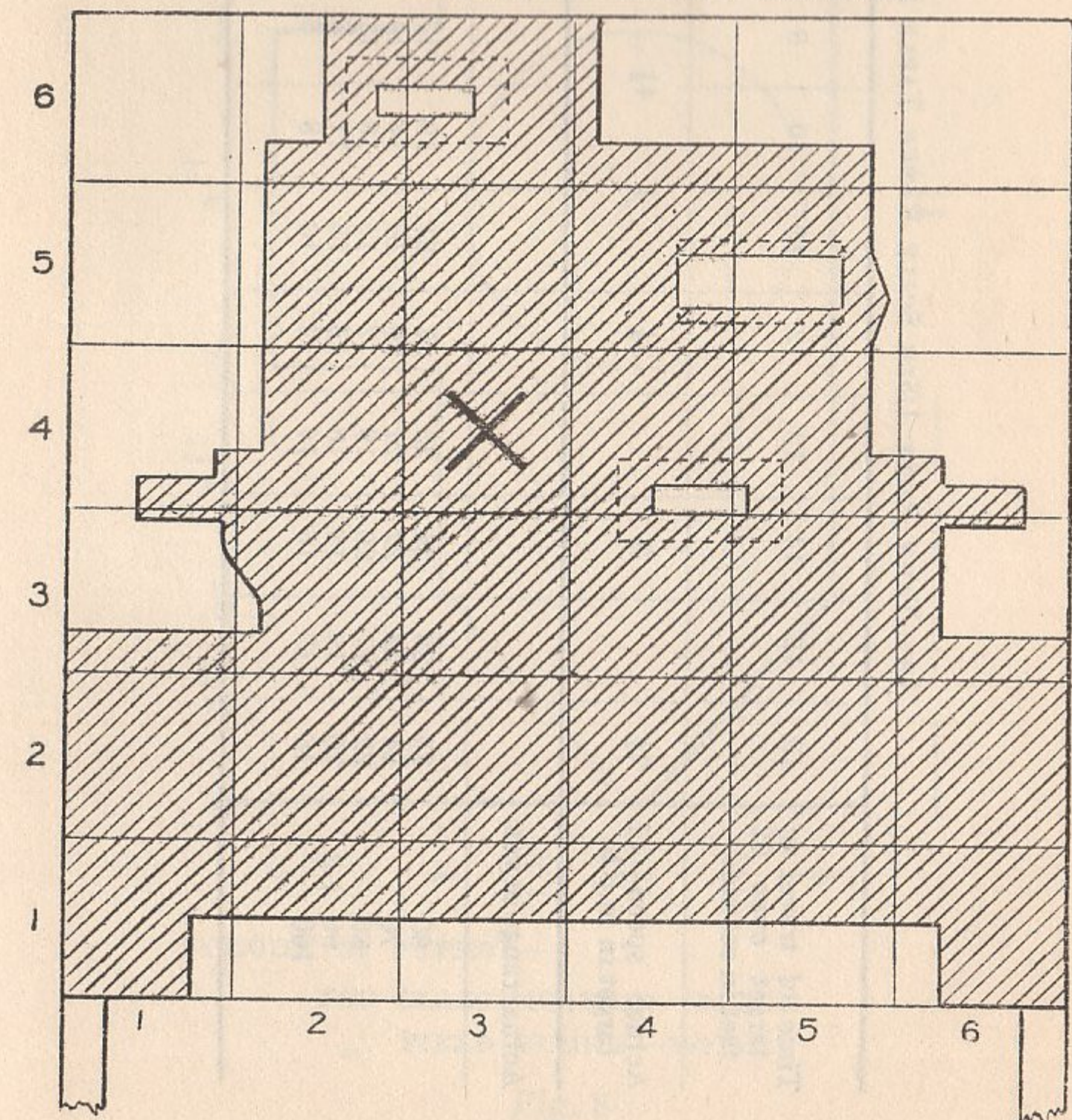
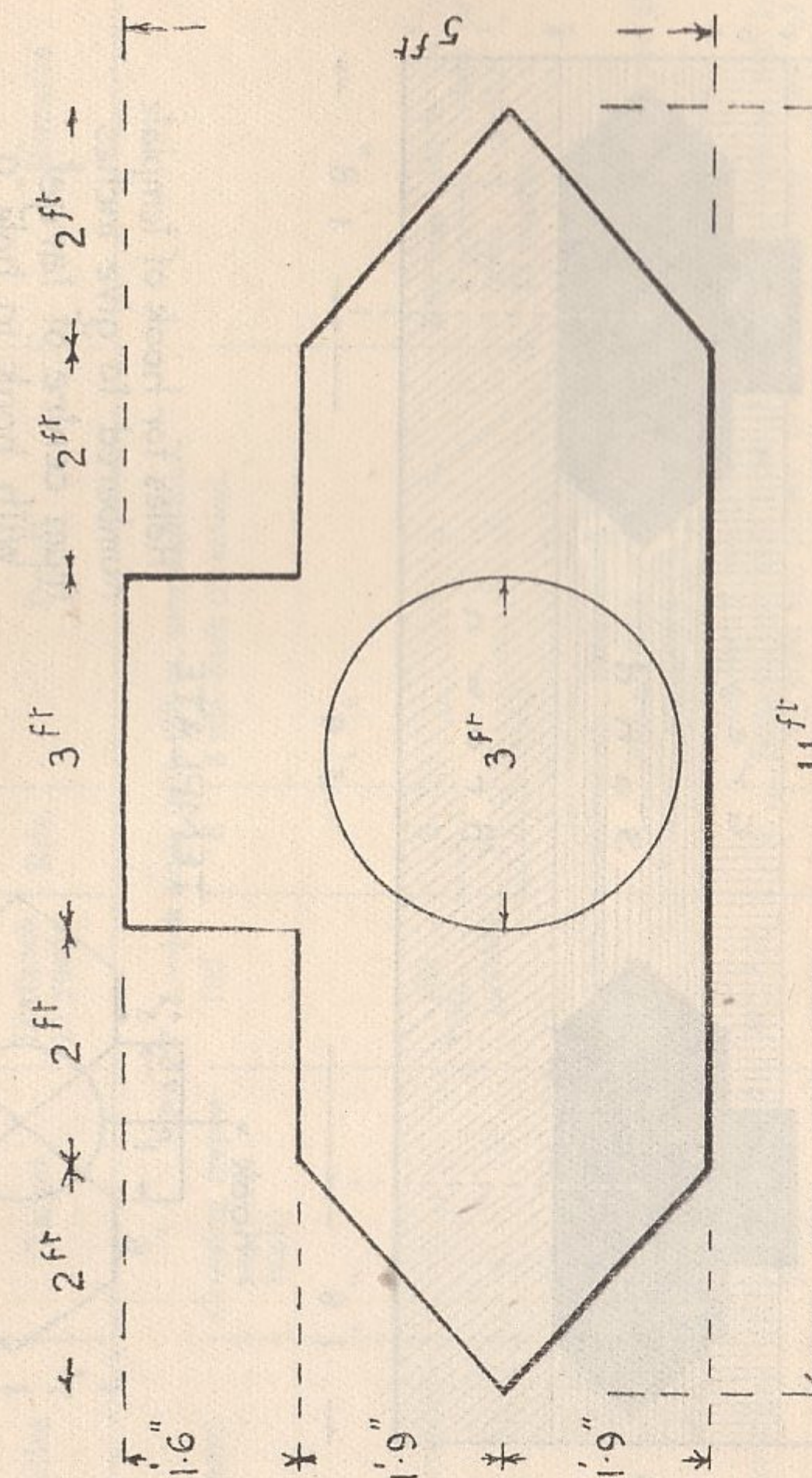


Fig. 2

Time of travel of target over 62 feet in seconds.	16	15	14	13	12	11	10	9	8	7	6
Actual speed of target in m.p.h.	2½		3		3½	4	4½	5		6	7
Actual range in yds.											
60	25	25	24	23	22	21	19	17	15	12	8
70	24	23	22	21	20	18	16	14	11	8	3
80	22	21	20	19	17	15	13	11	8	4	-2
90	20	19	18	16	15	13	11	8	4	0	-6
100	18	17	16	14	12	10	8	5	1	-4	-11

Distance in inches which shots should be in front of centre of target.
Note: — = behind.



COLOUR OF PAPER:—

FOR CLASSIFICATION—BLACK

„ FIELD FIRING—MOTLEY

Fig. 3

A.T. RIFLE 1/5 SCALE TARGET

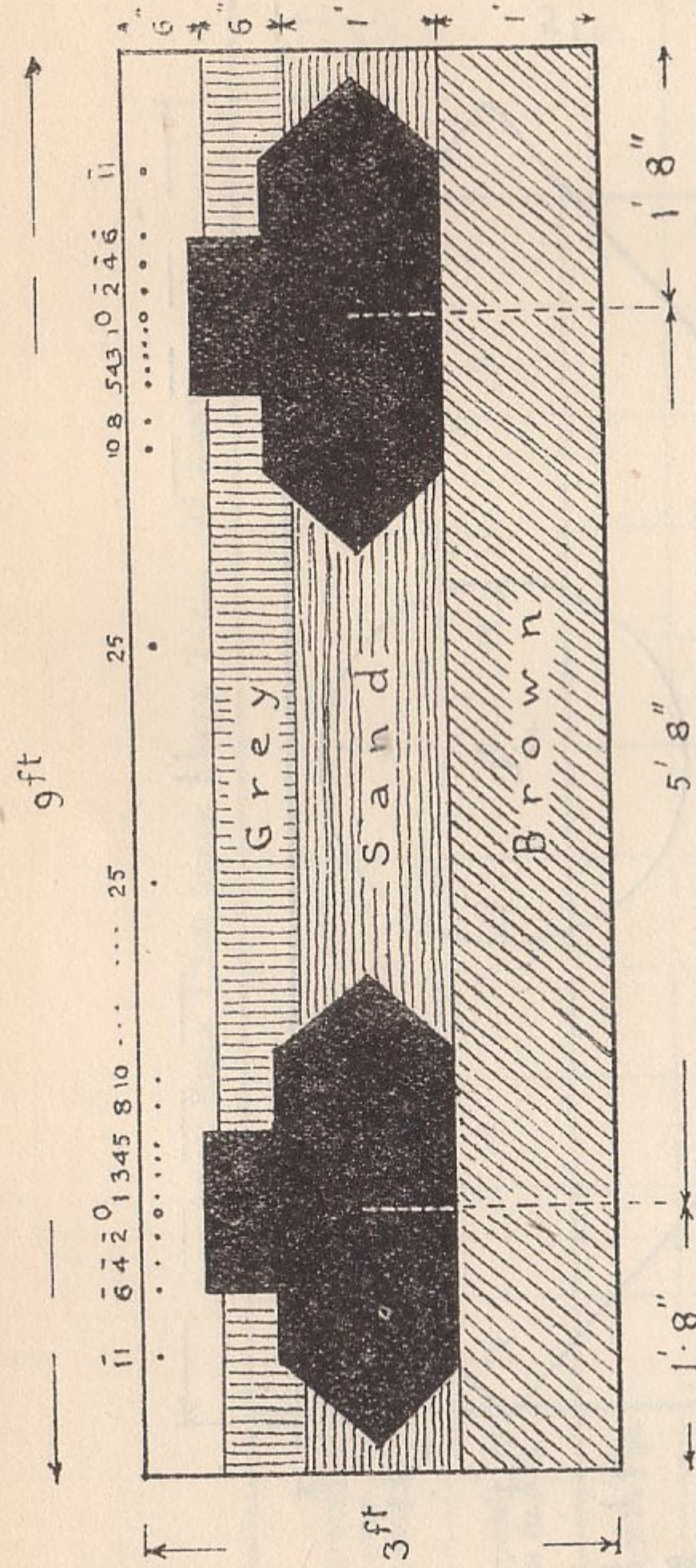
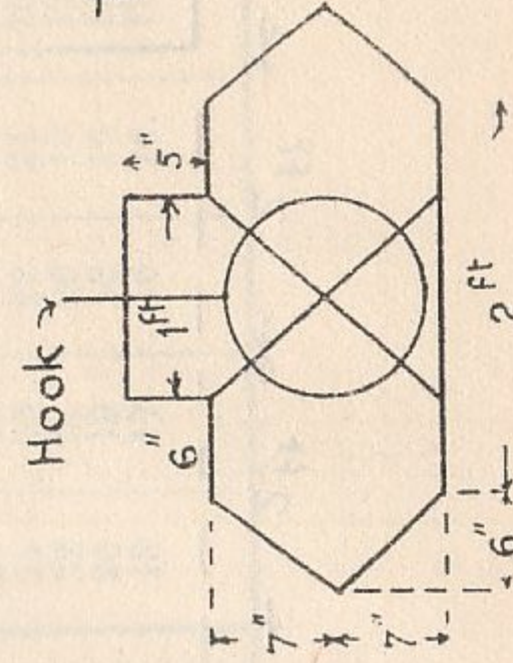


Fig. 4

TEMPLATE.



Holes for hook of template numbered to give inches from centre of target with hook in hole "0" template coincides with target.

ANTI-TANK RIFLE COURSE (PROVISIONAL)

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
PART I.—1/5th scale with .22-in. ammunition.						
1.	Preliminary	Crossing (representative tank)	100	6	3 rds. each direction.	
†2.	Direct crossing	"	100 Total rounds	6 12	" "	Scoring.—Each hit in circle, 2 points. Rest of scoring area, 1 point. H.P.S. 12 points.
PART II.—A.T. range with .55-in. ammunition. (Suggested course where practicable.)						
3.	Sighting	Head-on tank target, 6-ft. stationary.	300	3	The position of each hit will be shown on a duplicate target at the firing point (see Sec. 7, para. 4).	†These practices are classification.
†4.	Snaphooting	Silhouette light tank	300-500	5	Targets, operated from pits by cord and pulley, to be exposed at various places within area allotted for 5 exposures of 6 seconds each. 10 seconds between exposures.	Scoring.—Each hit in circle, 2 points. Rest of target, 1 point. H.P.S. 10 points.

PART II.—A.T. range with .55-in. ammunition. (Suggested Course where practicable.)—continued

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
†5.	Direct crossing	Silhouette light tank	300	6	3 rounds each direction (target on trolley.)	Scoring.—As above. H.P.S. 12 points.
†6.	"	"	500	6	3 rounds each direction. (target on trolley.)	Scoring.—As above. H.P.S. 12 points.
†7.	Diagonal crossing	Box light tank	500-200	5	One undulating run in each direction. 5 rounds to be fired while target is moving—3 rounds as it approaches the firer and 2 on the return run.	Scoring.—Each hit on tank, 2 points. H.P.S. 10 points. H.P.S. for course, 56
Total rounds				25		

Note.—In all moving target practices the target should be towed at a speed of 20-25 m.p.h.

CLASSIFICATION

Marksman A.T. rifleman	Points } To be notified later.
Service shot	
Failed	

SECTION 8.—THE PISTOL COURSE

General

1. The course is designed to practise individuals in delivering fire instantly by sense of direction. The speed at which one or more effective shots can be fired is more important than the close grouping of the shots.

2. To obtain full value from this course, a period of about one week should be devoted to preliminary practice in holding and snapping with an empty pistol before firing with live ammunition.

Range Discipline and Safety Precautions

3. See Pamphlet No. 1, Sec. 3, and Pamphlet No. 11, Lesson 1.

Grouping Practices

4. If faults are revealed in the first grouping practice, the second one will not be fired until these faults have been corrected by further instruction. Before men are allowed to shoot by sense of direction only, their individual ability in trigger pressing and holding must be ascertained. For this reason, sights will be used in firing the grouping practices.

Misfires and Jams

5. See Pamphlet No. 1, Sec. 3, para. 27.

Mounted Practices

6. For preliminary training, see Pamphlet No. 11, Lesson 6.

7. The squad, dismounted, will be formed as shown in Fig. 5. Each practice will be explained by the instructor before it is fired. He will then order "Load". This will be done in the normal way, placing the left arm through the reins. On the order "No. 1, Mount", "No. 1, Right turn", "Walk march", "On the target—Canter", No. 1 will move out from the right, at the pace laid down for the practice, fire one shot at each target, return the pistol to the case and approach the left flank of the squad at the trot, taking up his position on that flank.

When the targets have been checked and hits recorded, this process will be repeated for the other members of the squad. Firers will then dismount and pistols will be inspected.

8. Targets will be placed at 20 yards' interval and about 7 yards outside the track, facing the firing points. The firing

point for each target will be a point on the track about 10 yards from the target. Targets will be square to the firing points, according as the direction of the firer's approach is from the left or from the right (see Fig. 5).

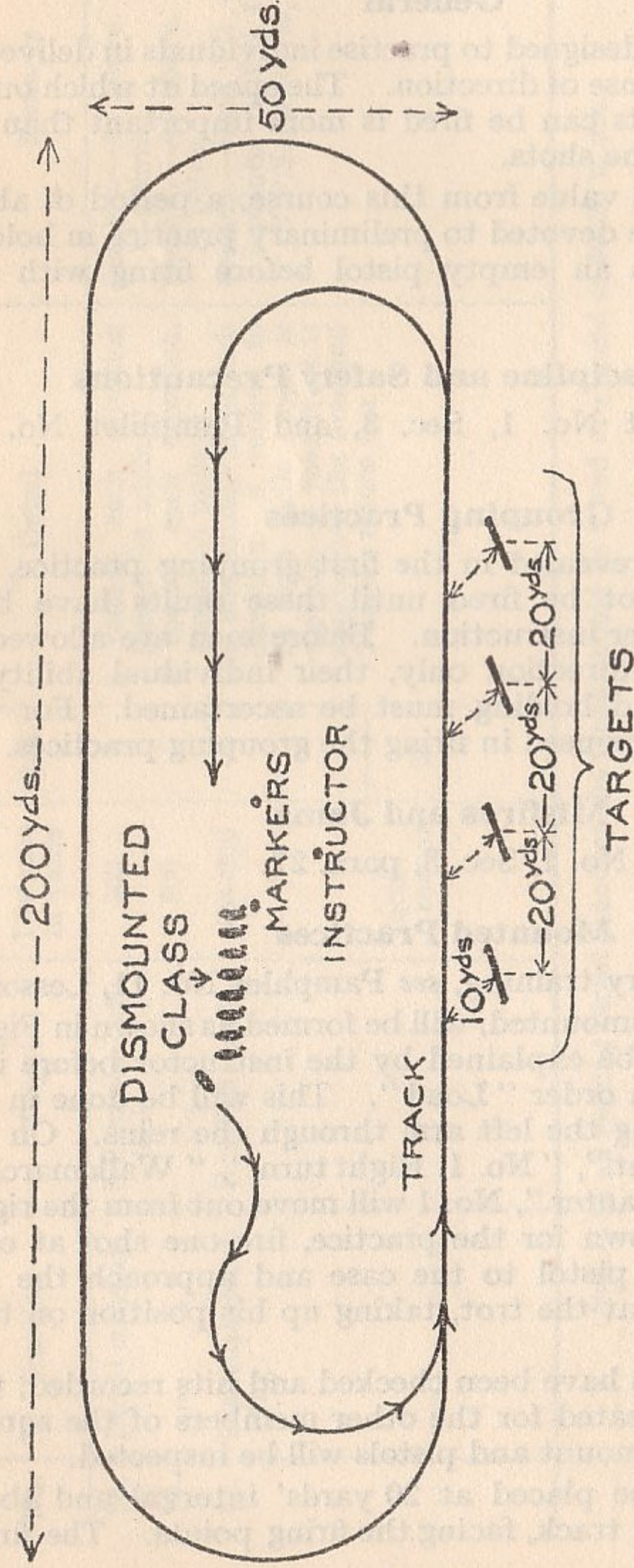


Fig. 5

The positions of targets are for firing to the right front. For practices fired to the left front movement will be in the opposite direction to that shown above.

PISTOL COURSE

Part I.—PRELIMINARY (using sights)

No.	Practice	Detail	No. of rounds	Range, yards	Target	H.P.S.	Remarks
1.	Grouping	Single action. Using sights. Firer to return to "Ready" position after each shot.	4 either hand	10	4-ft. with two 2-in. aiming marks.	No score—Faults to be carefully noted	i. Target for Practices 1 and 2 is shown in Vol. V, 1931, Plate 109, page 216. ii. Scoring: 4 shots within 8×4-in. rectangle=20 points. 4 shots within 12×8 in. rectangle=16 points. 4 shots within 16×12-in. rectangle=12 points.
2.	"	"	4 either hand	10	"	H.P.S. 20. Standard required, 12	<i>Note.</i> —The pistol grouping rectangle (Vol. V, 1931, Plate 116) will be applied, the centre to the bottom of the aiming mark.
Total Part I			8 rds.				

Part II.—INSTRUCTIONAL (without using sights)

No.	Application	Detail	No. of rounds	Range, yards	Target	H.P.S.	Remarks
3.	Single action, without use of sights. Firer to return to "Ready" position after each shot. Time 1 sec. for each shot. No standard interval between shots.	3 either hand	10	1 Fig. 2		15	i. Fig. targets 2 and 3 will be marked with a rectangle as shown in Vol. V, Plates 111 and 112A. ii. Practice 6: Two Fig. 2 targets on sledge (Vol. V, Plate 110) capable of movement. Two Fig. 3 targets. On the command "Fire", one

Part II.—INSTRUCTIONAL without using sights—continued

No.	Practice	Detail	No. of rounds	Range, yards	Target	H.P.S.	Remarks
4.	Application	Double action. 3 secs. for 3 shots.	3 either hand	10	1 Fig. 2	15	of the two Fig. 2 targets (as indicated by the conducting officer) will charge. The firer will first fire at the charging target, then advance 5 yds. and fire at the remaining three. Where several firers are firing in one detail, the conducting officer will ensure, as far as possible, that all firers advance together. iii. Scoring.— <i>Practices 3 to 11</i> : Each shot within 16 × 12-in. rectangle=5 points. Each shot on remainder of target =3 points.
5.	"	Single or double action. 1 shot at each target. Time, 6 secs. for practice.	4 either hand	10	4 Figs. 2	20	
6.	Attack	Single or double action. Firer advancing 5 yds. Time, 6 secs.	4 either hand	20 to 15	2 Figs. 2 (one charging) 2 Figs. 3	20	
7.	Defence	Single or double action. Drawing loaded pistol from case. Time, 4 secs.	2 either hand	15 to 5	2 Figs. 2, both charging	10	
8.	Surprise and disappearing (gas)	Single and double action. For each exposure 2 rounds to be fired, the first by single action. Time for each exposure, 2 secs. Respirators will be worn.	4 either hand	10	Fig. 2 to be exposed and moved within a frontage of 3 yds. 2 shots to be fired during each run of the target.	20	
Total Part II			20 rds.				

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Part III.—QUALIFICATION (without using sights)

9. Attack	Single or double action. Firer advancing 5 yds. Time, 5 secs.	4 either hand	15 to 10	2 Figs. 2 (one charging); 2 Figs. 3	20	Scoring and method of conducting as for Practice 6, Part II.
10. Defence	Single or double action. Drawing loaded pistol from case. Time for practice, 4 secs.	2 either hand	15 to 10	2 Figs. 2, both charging.	10	
11. Surprise and disappearing (gas)	Single and double action. 2 secs. for each exposure in which 2 shots will be fired. First shot to be fired by single action, firer to return to "Ready" position after each exposure. Interval of 2 secs. between each exposure. Respirators will be worn.	4 either hand	10	1 Fig. 2. Each exposure will be at a different point on a front of 3 yards.	20	
Total Part III					10 rds.	

QUALIFYING STANDARD, PART III H.P.S. 50 Qualified : 25 and over. Failed : under 25.	
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QUALIFYING STANDARD,
PART III
H.P.S. 50
Qualified: 25 and over.
Failed: under 25.

Total ammunition, Parts I, II and III=38 rounds.

Part IV.—MOUNTED (right hand only)

Fired by personnel of horsed cavalry regiments only who have qualified in Part III.

No.	Practice	How fired	Direction	No. of rounds	Approximate range	Target	H.P.S.	Remarks
12.	Attack at walk	Double action	Half right	3	10 yards	3 small (4 ft.) (as used for rifle)	No score	*In addition, points up to a maximum of 5 will be allotted for horsemanship in each practice by the conducting officer. Scoring: Practices 14 to 17.— Each shot within 16×12-in. rectangle=5 points. Each shot on remainder of target=3 points. Horsemanship (each practice)=5 points. QUALIFYING STANDARD, PART IV H.P.S. 80 Qualified: 45 and over. Failed: under 45.
13.	Attack at canter	"	"	3	"	"	"	
14.	Attack at walk	"	"	3	"	3 Figs. No. 2	15*	
15.	Attack at canter	"	"	3	"	"	15*	
16.	Attack at walk	"	Half left	3	"	"	15*	
17.	Attack at canter	"	"	3	"	"	15*	
Total Part IV				18 rds.				

Notes.—i. For preliminary instruction, see Sec. 8, paras. 6 and 7.
ii. For position of targets, see Fig. 5.

TABLE III.—INDIVIDUAL CLASSIFICATION OR QUALIFYING STANDARDS
CAVALRY REGIMENTS (HORSED), INFANTRY AND M.G. BATTALIONS (EXCLUDING M.G.'s)
(Note.—Unit figures of merit will not be worked out)

Category	Miniature rifle		L.M.G.						Rifle	
	Part II		Part III			Part IV			Part III	Part VI
	Quali- fied	Failed	1st class	2nd class	Failed	Marks- man	Service shot	Failed	Stan- dard score	Stan- dard score
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1st year men at depot (a)	40	under 40	—	—	—	—	—	—	45	—
1st year men—with unit	—	—	80	50	under 50	—	—	—	—	—
2nd and subsequent year men.	—	—	—	—	—	72	42	under 42	—	35
Snipers	—	—	—	—	—	—	—	—	—	—
Establishment at infantry and M.G. depots.	—	—	—	—	—	—	—	—	60	—
Wholly exempt	—	—	—	—	—	—	—	—	—	—

Category	Snipers		Anti-tank rifle			Pistol			
	Part I	Part II	Marks- man	Quali- fied	Failed	Part III		Part IV	
	Standard score	Standard score				Quali- fied	Failed	Quali- fied	Failed
	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1st year men at depot (a)	—	—	—	—	—	—	—	—	—
1st year men—with unit	—	—	—	—	—	25	under 25	45	under 45
2nd and subsequent year men.	—	—	—	—	—	25	under 25	45	under 45
Snipers	70	50	—	—	—	—	—	—	—
Establishment at infantry and M.G. depots.	—	—	—	—	—	25	under 25	—	—
Wholly exempt	—	—	—	—	—	25	under 25	45	under 45

(a) In the case of horsed cavalry regiments, recruits would fire with the unit. Enlisted boys entering man service and officers on first appointment would also fire these courses with the unit in the case of both cavalry and infantry.

SECTION 9.—ANNUAL MORTAR PRACTICE

1. Annual mortar firing differs from the firing of the other weapons in the infantry battalion in that it cannot be regarded as a range course, nor is it a test for individual members of the mortar platoon.

It is designed to practise the fire controllers and their understudies in the engagement of targets with H.E. and in the method of producing a smoke screen.

The annual allotment of ammunition is laid down by the War Office and this ammunition is for the use of fire controllers only to carry out the shoots enumerated below.

The tables given in this section are based on the allotment for 1937-38 and it will be noted that in no case is there sufficient ammunition to fire for effect with H.E. or for the actual production of a smoke screen.

The H.E. allotment is sufficient for the complete process of ranging on a point target, and the smoke allotment allows the fire controller to decide accurately on the position of his point of origin.

Where the range restricts a unit to powder-filled bombs only, the smoke shoots should be carried out as area H.E. shoots.

The annual practice is divided into three parts as enumerated below.

2. Part I.

i. *Object.*—The engagement of point targets to exercise untrained fire controllers and understudies in the rules of ranging.

ii. *General.*—The ammunition allotted will normally be fired by N.C.Os. who have recently been posted to the mortar platoon and have not controlled mortar fire with live ammunition, and by detachment orderlies and selected private soldiers who are about to be promoted and remain in the mortar platoon.

In all shoots the mortar should be within easy voice control of the O.P. and only simple point targets should be engaged.

iii. *Conduct.*—(a) The fire controllers to be exercised should be assembled near the O.P. under the platoon commander in a position from which they can hear the fire control orders and observe the fire. On the conclusion of each shoot the platoon commander will discuss the orders given.

(b) The spare mortar numbers of the whole platoon should be assembled near the mortar under the platoon serjeant in a position from which they can watch the drill and fire discipline. On the conclusion of each shoot the platoon serjeant will point out the mistakes made and change round the detachment at the mortar before the next shoot.

Nature of Shoot	No. of fire controllers exercised	No. of rounds for each fire controller		Total rounds for each battalion	
		H.E.	Smoke	H.E.	Smoke
Point target. Voice control	8	8	0	64	0

3. Part II.

- i. *Object.*—The neutralization of small areas with H.E. or the screening of areas with smoke after bringing the mortar into action under service conditions.
- ii. *General.*—The ammunition allotted will normally be fired by the detachment commanders and detachment corporals of the platoon.
- iii. *Conduct.*—The tactical situation will be given to the fire controller by an officer representing the rifle commander under whom the mortar detachment has been placed. On the conclusion of each exercise the platoon commander will comment on :—

(a) The selection of the O.P., base plate position and position in readiness.

(b) The occupation of the position.

(c) The engagement of the target.

The platoon serjeant will note mistakes made in drill.

Nature of Shoot	No. of fire controllers exercised	Subjects which could be practised	No. of rds. for each fire controller		Total rds. for each bn.	
			H.E.	Smoke	H.E.	Smoke
Eight detachment exercises. Area shoots.	8	Casualties. Long control. Gas. Safety problems.	8	0	64	0

4. Part III.

- i. *Object.*—As for Part II, introducing the employment of two mortar detachments under one rifle commander.
- ii. *General.*—The ammunition allotted will normally be fired by the detachment commanders and detachment corporals of the platoon.
- iii. *Conduct.*—The tactical situation will be given to the mortar section commander by an officer representing the rifle commander under whom the mortar section has been placed, and each exercise will be so conducted that both detachments are leap-frogged into action in turn. In other respects the conduct of these exercises is the same as in Part II.

Nature of Shoot	No. of fire controllers exercised	Subjects which could be practised	No. of rds. for each fire controller		Total rds. for each bn.	
			H.E.	Smoke	H.E.	Smoke
Four section exercises. Smoke shoots.	8	Casualties. Long control. Long carry gas. Safety problems.	2	5	16	40

5. *Ammunition, Parts II and III.*—The nature of the ammunition allotted to Parts II and III may be changed about at the discretion of the platoon commander so that some smoke shoots may be fired in Part II and some area shoots in Part III, but every fire controller exercised should be given one area shoot and one smoke shoot.

6. Safety precautions at the mortar position :—

- i. At all practices a safety officer will be detailed whose duty it is to see that all mortars are laid safely as regards line and elevation. He will also observe movements of aircraft in the vicinity and, if an aircraft is flying so as to approach the line of fire, he will delay firing until it is clear. (Aircraft flying at over 2,500 feet are safe.)
- ii. In addition to the safety officer, one full rank N.C.O. will be detailed to each mortar. His duty is to see that each bomb is fired with the charge ordered, and that the safety cap is removed before the bomb is placed in the barrel.

A N.C.O. will watch for blinds and immediately report their approximate location to the senior officer present. As mortar range danger areas may also be used for manœuvre purposes by troops, it is of great importance that unlocated blind projectiles do not accumulate.

7. Procedure for destroying blind projectiles :—

i. On no account will mortar personnel make any attempt to destroy blinds.

ii. Procedure :—

- (a) Mark the blind projectile with a red flag.
- (b) Report its location to higher authority through the usual channels.

APPENDIX.—GUIDE FOR CONDUCTING OFFICERS

Battle-Shooting Practices.

Conducting officers will find it of assistance to have with them, on the range, cards prepared on the following lines :—

1. Firing point officer.—

(The example below is designed for Practice 6 of the Sniper's Course).

Practice	Range	Order	Signal	Action	Rounds to be fired
Practice 6 Phase I ...	500 yards	" Load— 500— " You will fire ... rounds— Watch your front ".	Butts (1 ring)	Large convert- ible landscape exposed for 1 minute	5
	500 yards	" You will fire ... rounds— Watch your front ".	Lever man (1 wave with flag)	2 Figs. 3 ex- posed once for 35 seconds	3
	500 yards	" You will fire ... rounds— Watch your front ".	Lever man (2 waves with flag)	2 Figs. 2 for 15 seconds	2
Phase II ...					

2. Butts officer.—

The suggested signal for targets to be exposed will be one short ring on the telephone. The targets will appear in any pre-arranged order, e.g. :—

Signal	Target	Exposure	Scoring
First ring.	Convertible landscape.	1 minute	4, 3, 2, 1
Second ring.	Fig. 2 on pole.	1st exposure : 10 seconds 2nd exposure : 5 seconds	3 points for each hit
Third ring.	Walking Fig. 6.	To walk across frontage of 12 yds. : 3 times from R. to L.; twice from L. to R.; the target will disappear when hit	3 points for each hit
Fourth ring.	3 Figs. 3 (disappearing).	Total exposure of 1 minute but each target will disappear when hit.	3 points for each hit, plus 5 points if all targets hit

The above example is not taken from any particular practice in the courses.



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